

Anti-alpha Tubulin eFluor[®] 650NC (for IHC/ICC)

Catalog Number: IH95-4502

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-alpha Tubulin eFluor[®] 650NC
(for IHC/ICC)

 **Catalog Number:** IH95-4502

Clone: DM1A

Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial



Description

The monoclonal antibody DM1a recognizes the 50kDa cytoskeletal protein α tubulin in a variety of species (human, mouse, rat, monkey, dog, pig, bovine, goat, hamster, guinea pig, kangaroo, amphibians, sea urchin, yeast and tobacco plants). Tubulin, the major component of microtubules, is a dimeric protein consisting of an alpha and beta subunit. Tubulin is a GTP-binding protein that can be modified by phosphorylation and acetylation resulting in assembly (polymerization) or disassembly (depolymerization). The dynamic nature of microtubules is most evident in the mitotic apparatus. The DM1a antibody recognizes the C-terminal end of the α tubulin isoform (amino acids 426-430).

Applications Reported

This DM1A antibody has been reported for use in immunohistochemical staining of formalin-fixed paraffin embedded and frozen tissue sections, as well as in immunocytochemistry (ICC).

Applications Tested

This DM1A antibody has been tested by immunocytochemistry of MDCK cell line using the IHC/ICC Blocking Buffer - Low Protein (cat. 00-4953). This antibody can be used at 1:100.

For answers to additional questions refer to for IHC/ICC protocols and eFluor Nanocrystal Frequently Asked Questions

Applications: This product has been optimized for use in immunohistochemistry and Immunocytochemistry. We do not recommend its use in flow cytometry.

Filter Recommendation: When using this eFluor[®] 650NC antibody conjugate, we recommend a filter that will capture the 650 emission wavelength. A standard Alexa Fluor[®] 647 filter is acceptable, although other filters that narrow the emission would be more suitable when complexing with additional eFluor[®] nanocrystal conjugates. Please refer to Technical Support FAQ for more information.

Buffer Recommendation: We recommend the use of TBS-based solutions when performing IHC/ICC with eFluor[®] NC conjugated antibodies. We offer several products: IHC /ICC Blocking Buffer - Low Protein (cat. 00-4953), and IHC /ICC Blocking Buffer – High Protein (cat. 00-4952) which is optimal when staining FFPE sections or when using eFluor[®] nanocrystal conjugates to nuclear targets.

Mounting Recommendation: For optimal results, we recommend the use of Fluoromount-G[™] (cat. 00-4958) when mounting slides.

References

Breitling F, Little M. Carboxy-terminal regions on the surface of tubulin and microtubules. Epitope locations of YOL1/34, DM1A and DM1B. J Mol Biol. 1986 May 20;189(2):367-70. (DM1a, PubMed)

Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein

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00-4958 Fluoromount-G[™]

Legal

Under patent number: US 7,939,170 and additional pending patent application(s)

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